VSR CIVIL INFRA PVT. LTD.

VSR/BBMP/YNKD/W.No.03-006/2019-20 Date. 05.02.2020

CERTIFICATE

Division : Yelahanka

Sub Division : Yelahanka Satellite Town Sub Division

Ward No : 03

Ward Name : Attur

Job Code No 003-20-000079

Name of Work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no 03 Yelahanka satellite Town Sub division

Contractor Name : M/S. Technical Manager (West), KRIDL , Bangalore

Work Order No : BBMP/EE/YNK.D/W.O/196/2019-20

Running Account Bill : 1st and Part Bill

BR No :

Value Of Work Completed : Rs.6343941.00

This is to certify that all the Items of Works have been carried out satisfactorily as per Specifications and Conform to MORTH.

for VSR Civil Infra Pvt. Ltd

VSR CIVIL INFRA PVT. LTD. BANGALORE

(Authorized Signatory)
Project Management Consultants

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಜಿ.ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

AE

#552/B, 6th Main Road, Hanumantanagar,Bengaluru – 560 019000. Cell : 9845230975
E-mail : vsrcivilinfra@gmail.com

Job No: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 07.12.2019

TEST REPORT

CLIENT	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
AGENCY	:	M/s. Technical Manager (West), KRIDL, Bengaluru
NAME OF THE WORK	:	Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.
SAMPLE ID	:	Cement (ACC – OPC 53 Grade)
DATE OF MANUFACTURE	:	November - 2019
DATE OF TESTING	:	05.12.2019 to 07.12.2019
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part -5)	145 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	430 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	30.00 %	-

Note:

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 23.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2019	23.12.2019	8.173	361.4	16.06
2	16.12.2019	23.12.2019	8.166	373.9	16.62
3	16.12.2019	23.12.2019	8.191	353.4	15.71

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 13.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2019	13.01.2020	8.210	506.3	22.50
2	16.12.2019	13.01.2020	8.232	523.4	23.26
3	16.12.2019	13.01.2020	8.241	512.0	22.76

Note:

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜೆ.ಬಿ.ಬಿ.ಎಂ. ಬೆಂಗಳೂರು-106

VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 23.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2019	23.12.2019	8.174	372.4	16.55
2	16.12.2019	23.12.2019	8.192	362.5	16.11
3	16.12.2019	23.12.2019	8.154	351.4	15.62

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 13.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2019	13.01.2020	8.215	499.6	22.20
2	16.12.2019	13.01.2020	8.232	512.3	22.77
3	16.12.2019	13.01.2020	8.248	524.7	23.32

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 23.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strengt (N/mm^2)
1	16.12.2019	23.12.2019	8.174	355.5	15.80
2	16.12.2019	23.12.2019	8.153	362.5	16.11
3	16.12.2019	23.12.2019	8.169	348.1	15.47

Note:

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 13.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	16.12.2019	13.01.2020	8.215	502.3	22.32
2	16.12.2019	13.01.2020	8.232	523.6	23.27
3	16.12.2019	13.01.2020	8.241	512.7	22.79

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 14.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.12.2019	14.01.2020	8.232	506.3	22.50
2	17.12.2019	14.01.2020	8.241	516.3	22.95
3	17.12.2019	14.01.2020	8.265	521.4	23.17

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 14.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.12.2019	14.01.2020	8.232	495.6	22.03
2	17.12.2019	14.01.2020	8.241	508.2	22.59
3	17.12.2019	14.01.2020	8.215	526.3	23.39

Note:

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 24.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.12.2019	24.12.2019	8.132	355.6	15.80
2	17.12.2019	24.12.2019	8.156	366.3	16.28
3	17.12.2019	24.12.2019	8.163	344.2	15.30

Note:

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 14.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.12.2019	14.01.2020	8.225	502.3	22.32
2	17.12.2019	14.01.2020	8.231	526.3	23.39
3	17.12.2019	14.01.2020	8.231	511.4	22.73

Note:

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 25.12.2019

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2019	25.12.2019	8.174	347.5	15.44
2	18.12.2019	25.12.2019	8.163	353.6	15.72
3	18.12.2019	25.12.2019	8.132	362.1	16.09

Note:

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VSR CIVIL INFRAPVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 15.01.2020

TEST REPORT ON CONCRETE CUBES

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of the work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.12.2019	15.01.2020	8.253	502.3	22.32
2	18.12.2019	15.01.2020	8.261	523.6	23.27
3	18.12.2019	15.01.2020	8.241	513.4	22.82

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.. VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 04.01.2020

KERB STONE (CORE) TEST REPORT

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of Work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

No.of Sample Tested : 03

Date of Testing : 04.01.2020

Techinical Reference : IS:516-1959 (Reaffirmed 1999), SP-24:1983.

Grade of Concrete : M_{15}

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	77.00	0.351	2321.60	1.54	0.960	25.90	13.19	14.25	13.68	17.10
2	50.00	79.00	0.365	2353.08	1.58	0.960	26.40	13.45	14.52	13.94	17.43
3	50.00	82.00	0.384	2385.00	1.64	0.960	24.50	12.48	13.48	12.94	16.17

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20 Date: 03.01.2020

PRECAST SLAB 100mm Thick(CORE) TEST REPORT

Client	:	Executive Engineer, Yelahanka Division, BBMP, Bengaluru.
Contractor	:	M/s. Technical Manager (West), KRIDL, Bengaluru
Name of Work	:	Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.
No.of Sample Tested	:	03
Date of Testing	:	03.01.2020
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M_{20}

SL No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	76.00	0.348	2332.04	1.52	0.960	33.50	17.06	18.43	17.69	22.11
2	50.00	79.00	0.365	2353.08	1.58	0.960	35.80	18.23	19.69	18.90	23.63
3	50.00	81.00	0.378	2376.71	1.62	0.960	34.70	17.67	19.09	18.32	22.90

Note:
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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date : 07.12.2019

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West), KRIDL, Bengaluru**

Name of Work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Date of Testing : 07.12.2019

Material : Sand

Total wt. of aggregates in gms = 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	51	5.10	5.10	94.9	90-100
2.36	162	16.20	21.30	78.7	75-100
1.18	143	14.30	35.60	64.4	55-90
600 Micron	171	17.10	52.70	47.3	35-59
300 Micron	225	22.50	75.20	24.8	8-30
150 Micron	189	18.90	94.10	5.9	0-10

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3. Any Query regarding the report must be reported within 30 days from the date of testing.

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VSR CIVIL INFRA PVT. LTD. BANGALORE

Job No.: VSR/BBMP/KRIDL/W.No.03/2019-20

Date: 12.12.2019

TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Client : **Executive Engineer,** Yelahanka Division, BBMP, Bengaluru.

Agency : **M/s. Technical Manager (West),** KRIDL, Bengaluru

Name of Work : Asphalting to roads at Jyothinagara and Muniswamappa layout and surrounding areas in ward no: 03 Yelahanka satellite Town Sub division, BBMP, Bangalore.

Sample Identification : 8mm,10mm,12mm Fe 500 TMT Bars

Technical Reference : IS 1786:2008, IS 1608:2005, IS 1599:1985 (Reaffirmed 2006)

Date of test : 12.12.2019

S.No	Brand	Nominal size (dia in mm)	Mass per metre (kg/metre)	TENSILE STRENGTH		
				0.20 % proof stress/ yield stress ($N/mm^{2)}$	Tensile strength ($N/mm^{2)}$	Elongation, percent on gauge length
1	Fe 500	8	0.33	539	548	14
2	Fe 500	10	0.65	553	561	14.5
3	Fe 500	12	0.84	565	575	15

Remarks:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
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